

ABSTRACT OF THE DISCLOSURE

METHOD AND SYSTEM FOR NUCLEIC ACID SEQUENCING

5 A method of nucleic acid sequencing comprising the steps
10 (a) amplifying a nucleic acid sample to produce an amplified DNA
15 product; (b) extending a sequencing primer bound to the DNA
product in the presence of terminating nucleotide analogs to
produce a collection of labeled nucleic acid products; (c)
detecting a total amount of label present in the collection to
produce a measurement; and (d) combining a plurality of
measurements to determine DNA sequence information about the
sample. A system for nucleic acid sequencing which uses
terminating nucleotide analogs to quantitatively determine
fragment length and sequence information.

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